DOCKET NO.: CRNT-0068

Please add the following claims:

58. A communications device for communicating data via a power line, comprising:

a filter in communication with the power line, wherein said filter substantially prohibits a flow of data signals through the power line; and

a transformer having a first winding with a first end and a second end, wherein said first end of said first winding of said transformer is electrically coupled to the power line on a first side of said filter, and wherein said second end of said first winding of said transformer is electrically coupled to the power line on another side of said filter.

- 59. The device of claim 58, wherein said first end of the first winding is electrically coupled to the power line via a capacitor.
- 60. The device of claim 58, wherein said filter is toroidal in shape and disposed around at least a portion of the circumference of the power line.
- 61. The device of claim 58, wherein said first end and said second end of said first winding are electrically coupled to the power line via a first and second capacitor, respectively.
- 62. The device of claim 58, wherein said transformer includes a second winding electrically coupled to transmit circuitry.
- 63. The device of claim 62, wherein said transmit circuitry includes an amplifier and a modulator.
- 64. The device of claim 58, wherein said transformer includes a second winding electrically coupled to receive circuitry.
- 65. The device of claim 64, wherein said receive circuitry includes an amplifier, a filter, and a demodulator.



DOCKET NO.: CRNT-0068

- 66. The device of claim 58, wherein said transformer includes a second winding electrically coupled to a transceiver.
- 67. The device of claim 66, wherein said transceiver is a fiber optic transceiver.
 - 68. The device of claim 66, wherein said transceiver is a wireless transceiver.
- 69. The device of claim 66, wherein said transceiver is a coaxial cable transceiver.
- 70. The device of claim 58, wherein the power line carries at least one thousand volts.
- 71. The device of claim 58, further comprising a power supply receiving power from the power line.
- 72. The device of claim 71, further comprising a toroidal shaped power supply inductor disposed around at least a portion of the circumference of the power line and electrically coupled to said power supply.
- 73. The device of claim 58, further comprising a toroidal shaped power supply inductor disposed around at least a portion of the circumference of the power line.
- 74. The device of claim 58, wherein said transformer further comprises a second winding, and further comprising a first modem in communication with said second winding.
- 75. The device of claim 74, further comprising a router in communication with said first modem.
- 76. The device of claim 74, further comprising a second modem in communication with said first modem.

- 77. The device of claim 58, wherein said filter comprises at least one toroidal magnetically permeable core disposed around the power line.
- 78. The device of claim 77, wherein said core is comprised of a first portion and a second portion.
- 79. The device of claim 78, wherein said first portion and said second portion of said core are held in spaced relation to each other, at least in part, with a hinge.
- 80. A communications device for communicating data via a power line, comprising:

a low pass filter coupled to the power line;

a transformer having a first winding and a second winding, wherein said first winding has a first end electrically coupled to the power line on a first side of said low pass filter, and wherein said first winding has a second end electrically coupled to the power line on a second side of said low pass filter; and

a transceiver coupled to said second winding of said transformer.

- 81. The device of claim 80, wherein said transceiver is a fiber optic transceiver.
 - 82. The device of claim 80, wherein said transceiver is a wireless transceiver.
- 83. The device of claim 82, wherein said transceiver is configured to communicate in accordance with an IEEE 802.11 standard.
- 84. The device of claim 80, wherein the transceiver is a coaxial cable transceiver.
- 85. The device of claim 80, wherein said second winding of said transformer is coupled to said transceiver through a filter and an amplifier.



- 86. The device of claim 80, further comprising a first modem in communication with said transceiver.
- 87. The device of claim 86, further comprising a second modem in communication with said first modem.
- 88. The device of claim 87, further comprising a router in communication with said first modem and said second modem.
- 89. The device of claim 87, wherein said second modem is in communication with a second power line.
- 90. A communications device for communicating data via a power line, comprising:

an inductor communicatively coupled to the power line to substantially prohibit the flow of data through the power line; and

an isolation device having a first conductor and a second conductor wherein said first conductor is coupled to the power line on a first side of said low pass filter, and wherein said second conductor is coupled to the power line on a second side of said low pass filter.

91. The device of claim 90, wherein said isolation device is a transformer.

 $L_{\mu}^{n}(\mathcal{O})_{\mu}$

.....